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Brookhaven National Laboratory National Synchrotron Light Source					Number: LS-PPS-0006 Effective:	Revision: B Page 1 0		
Subje	ect: X17C Radiolo	gical Int	erlock Test		3/27/02			
Prepa		<u> </u>	Approved By:		Revision	on/Periodic Rev	view Log	
	<u> </u>			*	Approval signatures or	i file with maste	er copy.	
Test	t Reason:			Test Result:	□ Passed	□ Fa	ailed	
				Test Type:	□ Full	□ P:	artial	
	t Date:			Start Time:	Finisl	n Time:		
	ter 1:			Assistant 1:				
Test	ter 2:			Assistant 2:	)- 			
	n off 'Red Tag' switch ify that vacuum valves Search the hutch  Open hutch door  Press CS-1, close hu	s and wat	The overhead ligh The red interior ligh The audible alarm The hutch interioc The hutch interioc	ts go out ght comes on sounds for 13 to k sign turns on k sign goes out	o 15 seconds mir	 iimum 		
	Press CS-E.		Hutch interior ligh		ot more than 20 s	seconds		
4.	Press interior search door, press CS-E aga			ess than the tim			).	
5.	Secure Transport Hu	tch. Sear	ch X17C hutch, one The STRESS "er end of the warnir	able" light does		il the		
6.	The person inside pro	esses an F	Emergency Stop Butt The shutter "enal The ES indicator The ES latch can key is turned	ole" light goes o comes on	_	ES1 I	ES2	

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7. Place latch device on door lock so key can be removed. Place switch holders on door switches. Search hutch, put door key in SRU, open STRESS and BLISS. (Note: One button controls the operation for both shutters on the beamline control panel. The STRESS is physically located upstream near the front end and the BLISS is located inside the transport hutch)

	inside the transport hutch).	The "Beam ON" sign comes on	
			Door
	Remove holder from switch 2.		<u>#1</u> <u>#2</u>
8.	Panlaga halder on switch 2	RIB latch light comes on	
0.	Replace holder on switch 2.	RIB cannot be reset unless SOR key is turned.	
9.	Remove holder on switch 1.		
•		STRESS closes	
		BLISS closes	
		RIA latch light comes on	
		Hutch interlock drops out	
		RIA can't be reset w/o SOR	
10.	Replace holder on switch 1. Sea	arch hutch, leave shutter closed.	
		Hutch Kirk key (KKH) cannot be removed from SRU	J
		unless button is pushed	
11.	Open shutters.		
		KKH cannot be removed even if button is pushed	
12.	and turn key just beyond this po Release the button and leave key	note where solenoid unit stops rotation. Push the butto int, but not far enough to actuate "key removed" switc y in this position. Open shutters, remove KKH, and	
	replace.	RIA latch light comes on	
		RIB latch light comes on	
		The STRESS closes	-
		The BLISS closes	
13.	With hutch interlocked, leave sh	outters closed	
13.	with faten interfocked, leave si	Beamline transfer key cannot be removed from SRU	
		unless button is pushed	
	Open Shutters.	winess outlon is publicu	
	· F · · · · · · · · · · · · · · · · · ·	Beam line transfer key cannot be removed even if but	tton
		is pushed	
14.	Close shutters. "Cheat" SRU as replace.	described in step 12. Open shutters, remove the key,	and
	•	RIA latch light comes on	
		RIB latch light comes on	
		The STRESS closes	
		The BLISS closes	
		SPA comes on	
		SPA cannot be reset w/o SOR	

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	Reset RIA and RIB. C	RI RI HI ST BI	IA latch IB latch utch int FRESS LISS cle	light comes o light comes o erlock drops o closes	on n	op button
17.	until the STRESS rema Remove holder on swi Reset RIB, release swi Open air valve to soler	tch 2 and rep tch 1 f air to STRE ains closed w tch 2 and rep tch 1	lace RIB trip RIA trip SS "C" hen ope	s on the solenoi en button is pre	id bank. Cycle	
18.	Search hutch.  Open shutters. Remove  Reset RIA and SPA	S F T T	STRESS RIA trip The "Co The SPA	S & BLISS clo s ntrol Room In	se hibit" light coron (after the ke	·
	Turn "Auto Open" key "Inhibit" and back to ". Turn Auto Open key O	Enable". S A DFF. Switch t S	STRESS And then the Shu STRESS	& BLISS clo	se able to "Inhibi	r Master Enable to  — it" and back to "Enable"

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O	pen STRESS and B			s the indicators	for RIAX and RIBX.			
		RIB lat	ch light comes	on				
		RIBX t	rips					
R	Replace switch holder. Attempt to reset RIBX.							
		RIBX v	will not reset					
R	eset RIB							
		RIBX 1	resets					
21. R	emove holder from	door switch 1.						
		RIA lat	ch light comes	on				
		RIAX 1	rips					
A	ttempt to reset RIA	X						
		RIAX	will not reset					

22. Remove the holders from the switches. Remove the latch device from the lock. Stand inside the hutch and open and close the door.

RIAX resets

Reset RIA

Both door switches operate freely and each "clicks" when door is opened

\* \* \*